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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,208	05/01/2001	Andrew Saxon	UC067.002A	6410
7590	03/22/2005		EXAM	INER
GINGER R. DREGER ESQ.			HUYNH, PHUONG N	
HELLER EHRMAN WHITE & McAULIFFE LLP				
275 MIDDLEFIELD ROAD			ART UNIT	PAPER NUMBER
MENLO PARK, CA	A 94025		1644	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/847,208	SAXON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Phuong Huynh	1644	
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC.  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communic. If the period for reply specified above is less than thirty (30) or If NO period for reply is specified above, the maximum statut.  - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION.  37 CFR 1.136(a). In no event, however, may a ication.  1ays, a reply within the statutory minimum of thi orry period will apply and will expire SIX (6) MOI.  1. by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communicatio BANDONED (35 U.S.C.§ 133).	n.
Status			
<ul> <li>1) Responsive to communication(s) filed</li> <li>2a) This action is FINAL.</li> <li>3) Since this application is in condition fo closed in accordance with the practice</li> </ul>	)☐ This action is non-final. r allowance except for formal mat		s .
Disposition of Claims			
4) Claim(s) 77,79-81 and 83-96 is/are per 4a) Of the above claim(s) is/are  5) Claim(s) is/are allowed.  6) Claim(s) 77,79-81 and 83-96 is/are rej  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction	withdrawn from consideration.		
9)☐ The specification is objected to by the B			
10) The drawing(s) filed on is/are: a	a) ☐ accepted or b) ☐ objected to	by the Examiner.	
Applicant may not request that any objection			
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to be			a).
Priority under 35 U.S.C. § 119			
	ocuments have been received. Ocuments have been received in the priority documents have been all Bureau (PCT Rule 17.2(a)).	Application No  n received in this National Stage	
Attachment(s)		·	
1) Notice of References Cited (PTO-892)	•	Summary (PTO-413)	
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 127/04.</li> </ol>		(s)/Mail Date Informal Patent Application (PTO-152) 	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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## **DETAILED ACTION**

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/7/04 has been entered.
- 2. Claims 77, 79-81, and 83-96 are pending.
- 3. The drawings filed 12/7/04 are objected to because solid black shading is not permitted in Figure 9. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 77, 79-81 and 83-96 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-16 and 20-21 of copending Application No. 11/050,113. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons.

Claim 77 of instant application recites an isolated fusion molecule comprising a human IgG heavy chain constant region sequence capable of binding to a human IgG inhibitory receptor directly functionally connected to a human IgE heavy chain constant region sequence capable of binding to a human IgE receptor wherein said fusion molecule is capable of binding both the IgG inhibitory receptor and the IgE receptor (genus). Claim 1 of copending application 11/050,113 recites an isolated fusion molecule comprising a Fce fragment functionally connected at its carboxyl terminus to an Fcyl fragment (species). The species of fusion molecule in copending application 11/050,113 anticipates the genus of fusion molecule in instant claims. The human IgG heavy chain constant region sequence of instant application is the same as that of Fcyl fragment of copending application 11/050,113. The human IgE heavy chain constant region sequence of instant application is the same as that of Fce fragment of copending application 11/050,113. The term "comprises" in claims 2-13, and 15 of copending application 11/050,113 extends the Fcy1 fragment and FcE fragment to include additional amino acids at either or both ends to include the full-length human IgG heavy chain constant region and the full-length human IgE heavy chain constant region sequence. The fusion proteins as set forth in claims 1-15 of copending application 11/050,113 are inherently capable of binding to a human IgG inhibitory receptor such as the low affinity FcyRIIb (claim 83 of instant application) and the IgE receptors such as high-affinity FceRI and low affinity FceRII receptor (CD23) (claim 84 of instant application).

Claim 81 of instant application recites the fusion molecule comprising a human IgG heavy chain constant region sequence capable of binding to a human IgG inhibitory receptor

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directly functionally connected to a human IgE heavy chain constant region sequence capable of binding to a human IgE receptor wherein said fusion molecule is capable of binding both the IgG inhibitory receptor and the IgE receptor wherein said IgG heavy chain constant region sequence and IgE heavy chain constant region sequence are connected via a polypeptide linker of 15 to 25 amino acid residues (genus). Claim 16 of copending application 11/050,113 recites an isolated fusion molecule comprising a Fcɛ fragment functionally connected at its carboxyl terminus to an Fcγ1 fragment wherein the Fcɛ and the Fcγ1 polypeptide sequences are functionally connected via a linker (species). The species of fusion molecule in copending application 11/050,113 anticipates the genus of fusion molecule in instant claims. Further, the human IgG heavy chain constant region sequence of instant application is the same as that of Fcγ1 fragment of copending application 11/050,113. The human IgE heavy chain constant region sequence of instant application is the same as that of Fcɛ fragment of copending application 11/050,113. These human IgG heavy chain constant region sequence and human IgE heavy chain constant region sequence are linked together via a linker.

Claim 86 of instant application recites an isolated fusion molecule comprising a human IgG heavy chain constant region sequence capable of binding to a human IgG inhibitory receptor directly functionally connected to a human IgE heavy chain constant region sequence capable of binding to a human IgE receptor wherein said fusion molecule is capable of binding to both the IgG inhibitory receptor and to the IgE receptor and wherein said IgG heavy chain constant region sequence consists of the hinge-CH2-CH3 portion of an IgG heavy chain constant region. Claim 14 of copending application 11/050,113 recites a fusion molecule comprising the polypeptide sequence CHε2- CHε3- CHε4-γhinge-CHγ2-CHγ3. The "hinge-CH2-CH3 portion of an IgG heavy chain constant region" of instant application is the same as "-γhinge-CHγ2-CHγ3" of the fusion molecule in copending application 11/050,113 while the human IgE heavy chain constant region sequence of instant application is the same as that of CHε2- CHε3- CHε4 of the fusion molecule in copending application 11/050,113. The same reasons apply to claims 89-90 and 96. Finally, the Fc region of IgG and IgE are inherently capable of forming disulfide bond to form a homodimer.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Huynh "NEON" whose telephone number is (571) 272-0846. The examiner can normally be reached Monday through Friday from 9:00 am to 5:30 p.m. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The IFW official Fax number is (703) 872-9306.
- 8. Any information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong N. Huynh, Ph.D.

Patent Examiner

Technology Center 1600

March 21, 2005

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600